



LDPE

L2102TN42

Product Description:

Low Density Poly Ethylene

General Information:

DSM produces low density polyethylene by the tubular and the autoclave reactor processes. As a result the product range covers a wide variety of densities and melt flow rates. Further it includes a large number of grades with excellent optical properties which yield firm with a high to very high clarity.

Finally there is a wide variety of additives. For example, several grades contain the slip agent erucamide. Films produced from these materials have excellent surface properties and very low odour and taste levels, which is of advantage in e.g. food packaging.

SURIN



LDPE

Typical data - L2102TN42

PROPERTIES	TEST METHOD	UNIT	VALUE
Polymer Properties			
Melt Flow Rate	ISO 1133	dg/min	1.9
Density	ISO 1183 (A)	kg/m ³	921
Optical Properties			
Gloss (45°)	ASTM D 2457	%	53
Haze	ASTM D 1003A	%	11
Clarity	DSM method	mV	28
Formulation Level			
Slip	DSM method	ppm	500 E
Anti block	DSM method	ppm	2300
Anti oxidant-			
Processing aid (PPA) -			
Mechanical Properties			
Impact strength	ASTMD 4272	kJ/m	18
Tear strength TD	ISO 6383-2	kN/m	22
Tear strength MD	ISO 6383-2	kN/m	72
Tensile test	ISO R527-1		
Yield stress TD			11
Yield Stress MD			12
Tensile Stress at break TD			18
Tensile Stress at break MD			32
Strain at break TD			>500
Strain at break MD			>100
Modulus of elasticity TD			200
Modulus of elasticity MD			200
Coefficient of friction	ASTM D 1894		0.1
Blocking	DSM method	g	< 5
Re-Blocking	DSM method	g	30